

Amendments to the Claims

Applicants are not currently amending the claims. In a reply to a restriction requirement, Applicants previously elected Claims 27-52 for prosecution. The claims are presented below for the convenience of the Examiner:

Claim Listing

1. (Withdrawn) An apparatus for preparing a macromolecule sample, comprising:
 - a hydraulic system designed to separate a macromolecule from a mixture that also includes larger and smaller components; and
 - a controller operably coupled to the hydraulic system and including executable instructions to convert and execute operational input to control the hydraulic system in a manner for preparing the macromolecule sample.
2. (Withdrawn) The apparatus according to Claim 1 wherein the executable instructions are compiled software.
3. (Withdrawn) The apparatus according to Claim 1 wherein the executable instructions are unchangeable.
4. (Withdrawn) The apparatus according to Claim 1 wherein the executable instructions conform to a known industry standard.
5. (Withdrawn) The apparatus according to Claim 1 wherein the operational input includes declarative software instructions.
6. (Withdrawn) The apparatus according to Claim 1 wherein the executable instructions include instructions to interpret program instructions.

7. (Withdrawn) The apparatus according to Claim 1 wherein the operational input is modifiable independent of the executable instructions.
8. (Withdrawn) The apparatus according to Claim 1 wherein the controller includes an interface to receive the operational input from an external system.
9. (Withdrawn) The apparatus according to Claim 8 wherein the external system is coupled to the interface via a network.
10. (Withdrawn) The apparatus according to Claim 1 wherein:
 - the hydraulic system includes multiple devices addressable by the controller; and
 - the executable instructions include correspondence between predetermined indicators in the operational input and the multiple devices.
11. (Withdrawn) The apparatus according to Claim 1 wherein the executable instructions include instructions to detect errors in the operational input.
12. (Withdrawn) The apparatus according to Claim 1 wherein the hydraulic system includes:
 - at least one rough filter and at least one fine filter; and
 - a pump and at least one valve.
13. (Withdrawn) A method for preparing a macromolecule sample, comprising:
 - separating a macromolecule from a mixture that also includes larger and smaller components; and
 - converting and executing operational input to control the separating of the macromolecule in a manner for preparing the macromolecule sample.

14. (Withdrawn) The method according to Claim 13 wherein converting and executing the operational input includes executing executable instructions.
15. (Withdrawn) The method according to Claim 14 wherein the executable instructions are compiled software.
16. (Withdrawn) The method according to Claim 14 wherein the executable instructions are unchangeable.
17. (Withdrawn) The method according to Claim 14 wherein the executable instructions conform to a known industry standard.
18. (Withdrawn) The method according to Claim 13 wherein the operational input includes declarative software instructions.
19. (Withdrawn) The method according to Claim 13 wherein converting the operational input includes interpreting program instructions.
20. (Withdrawn) The method according to Claim 13 wherein the converting and executing is performed by executable instructions and the operational input is modifiable independent of the executable instructions.
21. (Withdrawn) The method according to Claim 13 further including receiving the operational input from an external system.
22. (Withdrawn) The method according to Claim 21 wherein receiving the operational input includes communicating across a network.
23. (Withdrawn) The method according to Claim 13 wherein converting and executing the operational input includes determining correspondence between predetermined

indicators in the operational input and devices used for separating the macromolecule from the mixture.

24. (Withdrawn) The method according to Claim 13 further including detecting errors in the operational input.
25. (Withdrawn) The method according to Claim 13 wherein the separating includes (i) rough and fine filtering the mixture and (ii) operating a pump and at least one valve to cause pressure differentials across the filters.
26. (Withdrawn) An apparatus for preparing a macromolecule sample, comprising:
 - means for separating a macromolecule from a mixture also including larger and smaller components; and
 - means for converting and executing operational input for controlling the means for separating the macromolecule from the mixture.
27. (Original) An apparatus for performing capillary electrophoresis, comprising:
 - an inlet chamber;
 - a capillary electrophoresis column with one end fixedly coupled to the inlet chamber;
 - a liquid source coupled to the inlet chamber through an input valve to supply a liquid sample in a controlled manner to the inlet chamber; and
 - a controller operatively coupled to the input valve and including executable instructions to convert and execute operational input to control the valve for providing a sample of the liquid source to the capillary electrophoresis column.
28. (Original) The apparatus according to Claim 27 wherein the executable instructions are compiled software.

29. (Original) The apparatus according to Claim 27 wherein the executable instructions are unchangeable.
30. (Original) The apparatus according to Claim 27 wherein the executable instructions conform to a known industry standard.
31. (Original) The apparatus according to Claim 27 wherein the operational input includes declarative software instructions.
32. (Original) The apparatus according to Claim 27 wherein the executable instructions convert the operational input by interpreting program instructions.
33. (Original) The apparatus according to Claim 27 wherein the operational input is modifiable independent of the executable instructions.
34. (Original) The apparatus according to Claim 27 wherein the controller includes an interface to receive the operational input from an external system.
35. (Original) The apparatus according to Claim 34 wherein the external system is coupled to the controller via a network.
36. (Original) The apparatus according to Claim 27 wherein the executable instructions include correspondence between predetermined indicators in the operational input and the input valve.
37. (Original) The apparatus according to Claim 27 wherein the executable instructions include instructions to detect errors in the operational input.
38. (Original) The apparatus according to Claim 27 wherein the inlet chamber is coupled to a hydraulic system including rough and fine filters, a pump, and at least one

valve.

39. (Original) A method for performing capillary electrophoresis comprising:
 - providing a liquid source in fluid communication via an inlet chamber to an end of a capillary electrophoresis column fixedly coupled to the inlet chamber; and
 - in response to converting and executing operational input, controlling flow of the liquid source to the inlet chamber to provide a liquid sample in a controlled manner to the end of the capillary electrophoresis column.
40. (Original) The method according to Claim 39 wherein converting and executing the operational input includes executing executable instructions.
41. (Original) The method according to Claim 40 wherein the executable instructions are compiled software.
42. (Original) The method according to Claim 40 wherein the executable instructions are unchangeable.
43. (Original) The method according to Claim 40 wherein the executable instructions conform to a known industry standard.
44. (Original) The method according to Claim 39 wherein the operational input includes declarative software instructions.
45. (Original) The method according to Claim 39 wherein converting the operational input includes interpreting program instructions.
46. (Original) The method according to Claim 39 wherein the converting and executing is

performed by executable instructions, and the operational input is modifiable independent of the executable instructions.

47. (Original) The method according to Claim 39 wherein converting and executing operational input includes receiving the operational input from an external system.
48. (Original) The method according to Claim 47 wherein receiving the operational input includes interfacing to the external system via a network.
49. (Original) The method according to Claim 39 further including determining correspondence between predetermined indicators in the operational input and a device used to control the flow of the liquid source.
50. (Original) The method according to Claim 39 further including detecting errors in the operational input.
51. (Original) The method according to Claim 39 further including operating a hydraulic system producing the liquid source.
52. (Original) An apparatus for performing capillary electrophoresis comprising:
 - means for providing a liquid source in fluid communication via an inlet chamber to an end of a capillary electrophoresis column fixedly coupled to the inlet chamber;
 - means for converting and executing operational input and responsively controlling flow of the liquid source to the inlet chamber to provide a liquid sample in a controlled manner to the end of the capillary electrophoresis column; and
 - means for performing the capillary electrophoresis.

53. (Withdrawn) A method for distributing a system requiring approval by a regulatory body, the method comprising:
 - validating executable instructions used to operate the system, the executable instructions including instructions to convert and execute operational input subject to independent validation;
 - obtaining the approval of the regulatory body for the system independent of approval of the system with the operational input; and
 - distributing the approved system to a customer.
54. (Withdrawn) The method according to Claim 53 wherein the executable instructions are compiled software.
55. (Withdrawn) The method according to Claim 53 wherein the executable instructions are unchangeable by the customer.
56. (Withdrawn) The method according to Claim 53 wherein the executable instructions conform to a known industry standard.
57. (Withdrawn) The method according to Claim 53 wherein the regulatory body is a government agency.
58. (Withdrawn) The method according to Claim 57 wherein the government agency is the Food and Drug Administration (FDA).
59. (Withdrawn) The method according to Claim 57 wherein the government agency is the Department of Defense (DOD).
60. (Withdrawn) The method according to Claim 53 wherein converting the operational input includes interpreting program instructions.

61. (Withdrawn) The method according to Claim 53 wherein the operational input includes declarative software instructions generated by the customer.
62. (Withdrawn) The method according to Claim 53 further including guaranteeing continued approval by the regulatory body of the system with the executable instructions regardless of changes to the operational input.
63. (Withdrawn) The method according to Claim 53 wherein the system is used for preparing a sample of a macromolecule or performing electrophoresis on a sample of a macromolecule.
64. (Withdrawn) The method according to Claim 63 wherein validating the executable instructions includes testing the system for a range of operational input reasonably expected to be applied by the customer to prepare or analyze the macromolecules.
65. (Withdrawn) The method according to Claim 63 wherein the system includes a subset of valves, pumps, sensors, heating elements, cooling elements, or an electrophoresis column, and wherein validating the executable instructions includes verifying the executable instructions cause the subset of valves, pumps, sensors, heating elements, cooling elements, or an electrophoresis column to operate according to the known industry standard.
66. (Withdrawn) The method according to Claim 63 further including allowing the customer (i) to custom-design declarative instructions used as the operational input to customize operation of the system and (ii) to validate and obtain regulatory body approval of the system with the custom-designed declarative instructions without having to re-validate and obtain further regulatory body approval for the executable instructions.